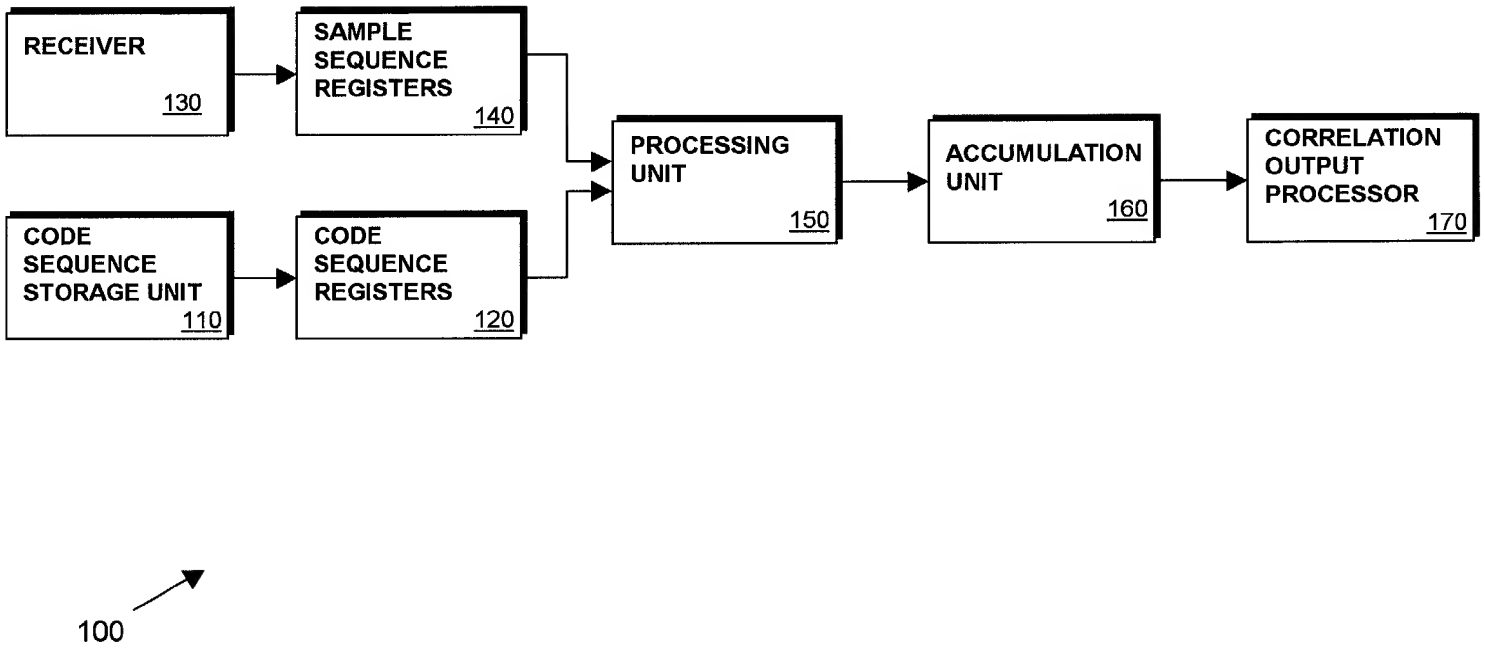
RECEIVER
130
SAMPLE SEQUENCE REGISTERS
140
CODE SEQUENCE STORAGE UNIT
110
CODE SEQUENCE REGISTERS
120
PROCESSING UNIT
150
ACCUMULATION UNIT
160
CORRELATION OUTPUT PROCESSOR
170
100

FIG. 1

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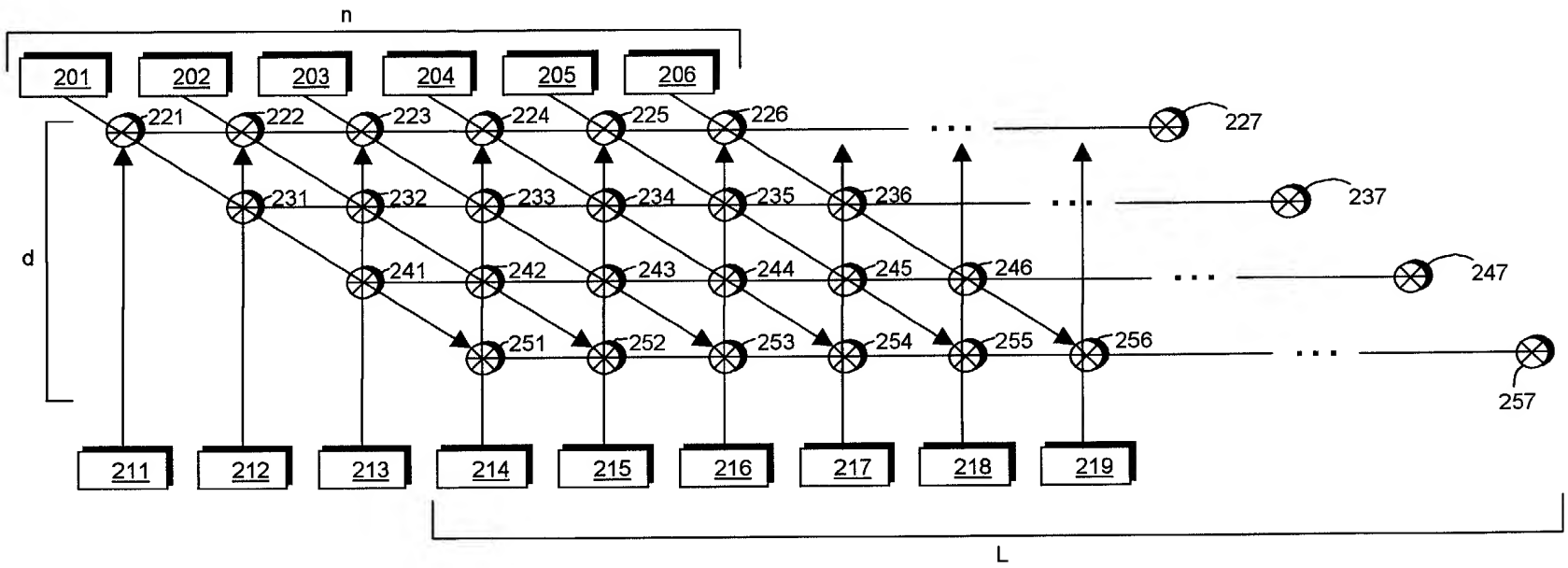

FIG. 2

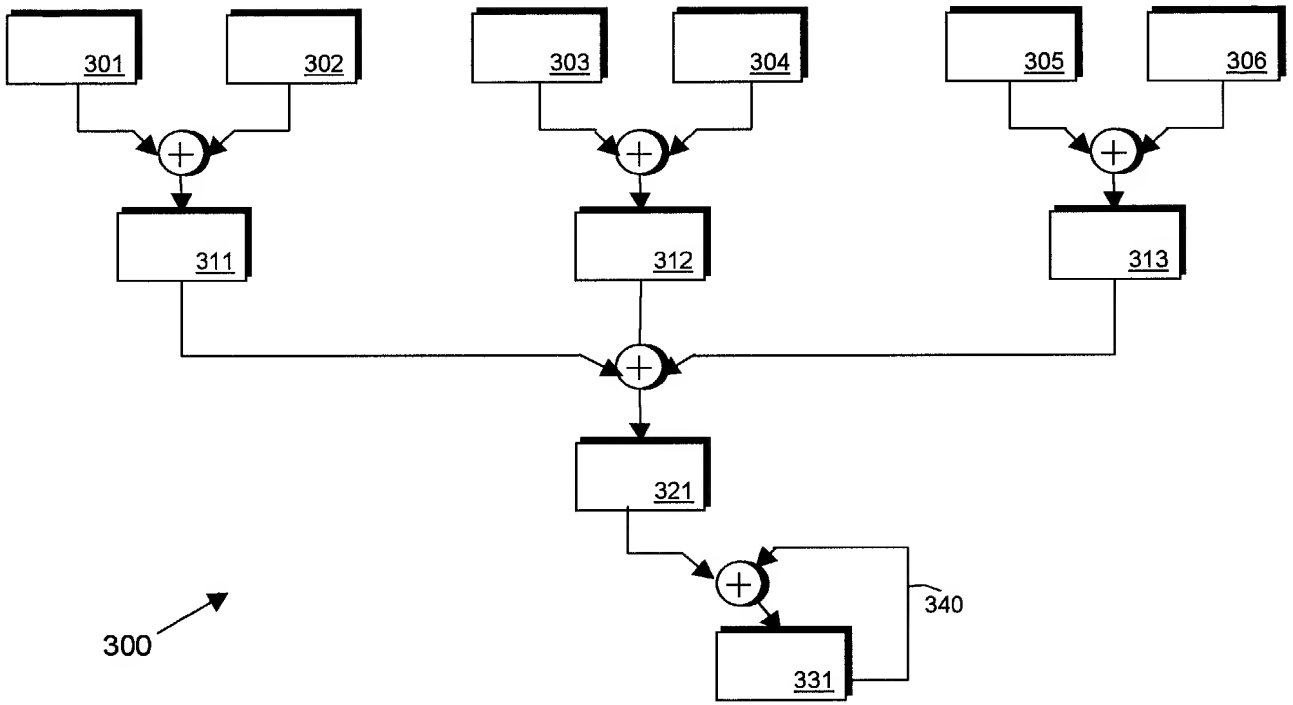

FIG. 3

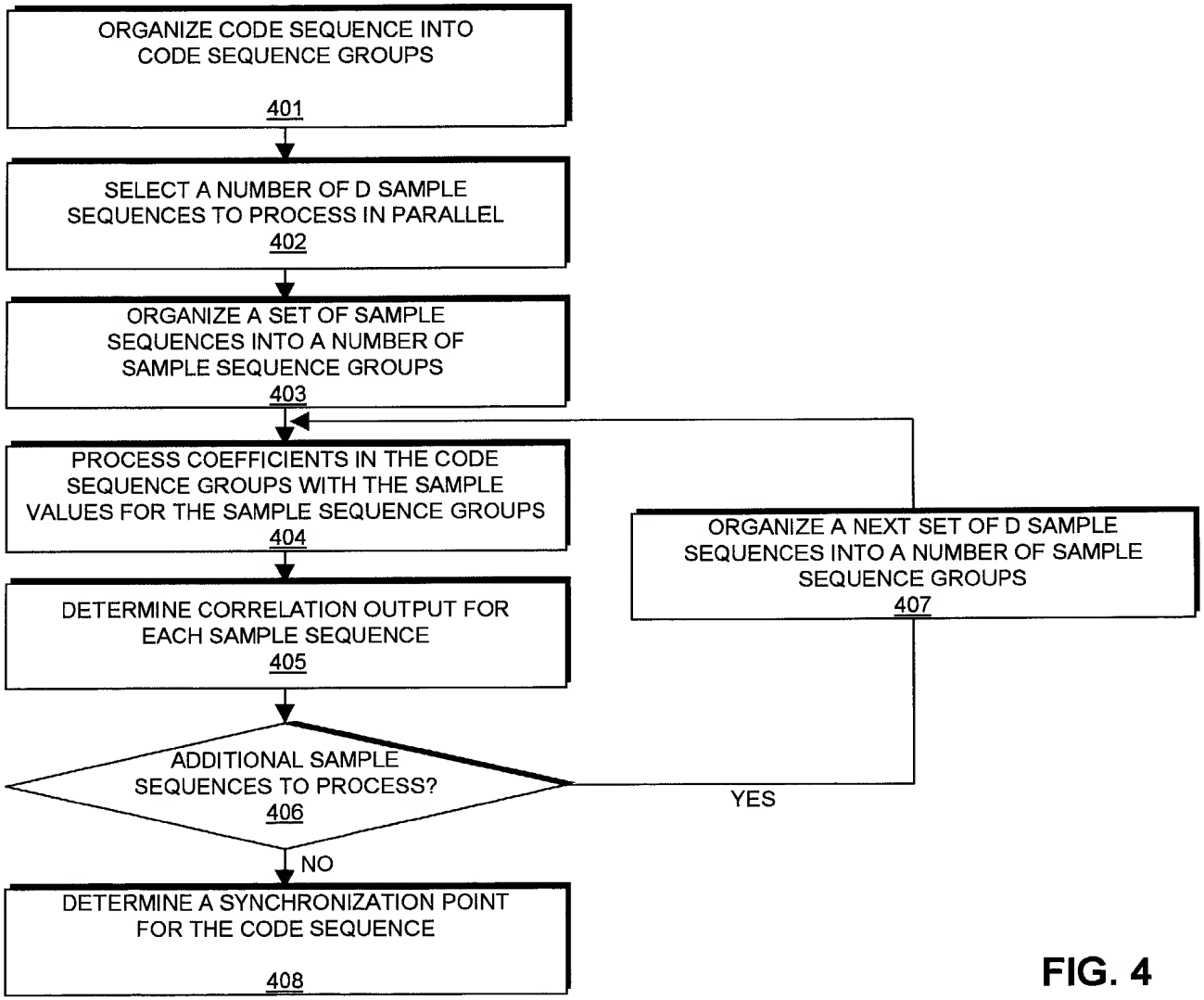
ORGANIZE CODE SEQUENCE INTO CODE SEQUENCE GROUPS
401
SELECT A NUMBER OF D SAMPLE SEQUENCES TO PROCESS IN PARALLEL
402
ORGANIZE A SET OF SAMPLE SEQUENCES INTO A NUMBER OF SAMPLE SEQUENCE GROUPS
403
PROCESS COEFFICIENTS IN THE CODE SEQUENCE GROUPS WITH THE SAMPLE VALUES FOR THE SAMPLE SEQUENCE GROUPS
404
DETERMINE CORRELATION OUTPUT FOR EACH SAMPLE SEQUENCE
405
ADDITIONAL SAMPLE SEQUENCES TO PROCESS?
406
YES
ORGANIZE A NEXT SET OF D SAMPLE SEQUENCES INTO A NUMBER OF SAMPLE SEQUENCE GROUPS
407
NO
DETERMINE A SYNCHRONIZATION POINT FOR THE CODE SEQUENCE
408

FIG. 4

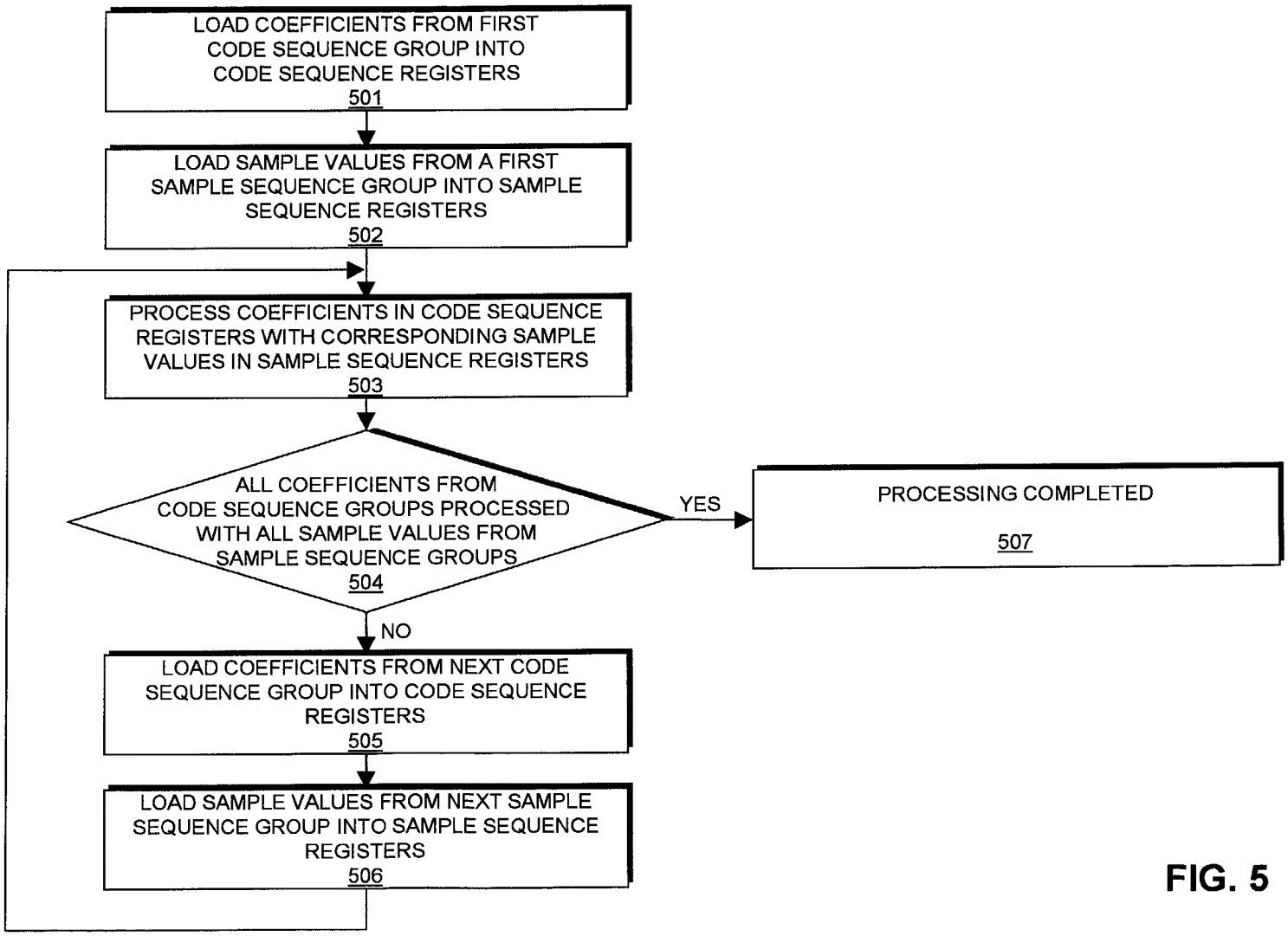
LOAD COEFFICIENTS FROM FIRST CODE SEQUENCE GROUP INTO CODE SEQUENCE REGISTERS
501
LOAD SAMPLE VALUES FROM A FIRST SAMPLE SEQUENCE GROUP INTO SAMPLE SEQUENCE REGISTERS
502
PROCESS COEFFICIENTS IN CODE SEQUENCE REGISTERS WITH CORRESPONDING SAMPLE VALUES IN SAMPLE SEQUENCE REGISTERS
503
ALL COEFFICIENTS FROM CODE SEQUENCE GROUPS PROCESSED WITH ALL SAMPLE VALUES FROM SAMPLE SEQUENCE GROUPS
504
YES
PROCESSING COMPLETED
507
NO
LOAD COEFFICIENTS FROM NEXT CODE SEQUENCE GROUP INTO CODE SEQUENCE REGISTERS
505
LOAD SAMPLE VALUES FROM NEXT SAMPLE SEQUENCE GROUP INTO SAMPLE SEQUENCE REGISTERS
506

FIG. 5

CODE SEQUENCE	1	-1	-1	1	-1	1								
RECEIVED SAMPLE	5	2	-1	3	6	-6	3	-3	5	9	-8	-8	7	6

FIG. 6

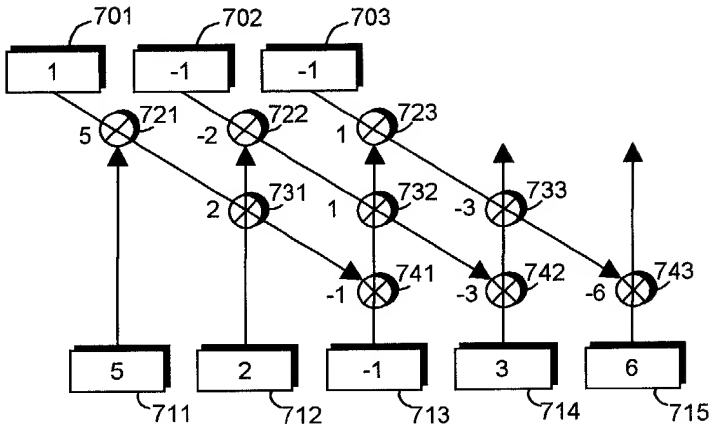
701
702
703
1
-1
-1
5
721
-2
722
1
723
2
731
1
732
-3
733
-1
741
-3
742
-6
743
5
2
-1
3
6
711
712
713
714
715

FIG. 7A

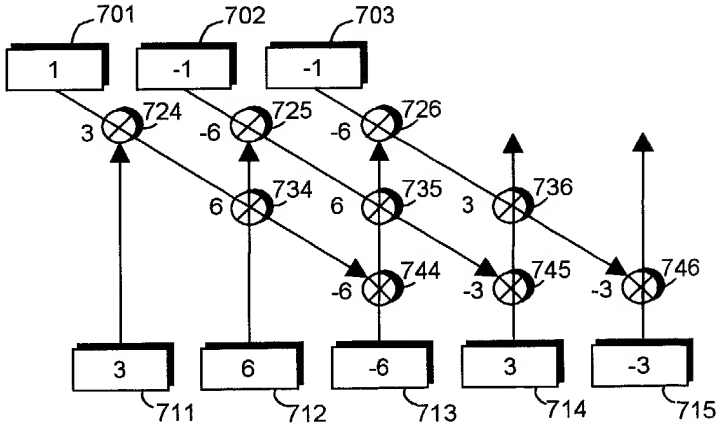
701
702
703
1
-1
-1
3
724
-6
725
-6
726
6
734
6
735
3
736
-6
744
-3
745
-3
746
3
6
-6
3
-3
711
712
713
714
715

FIG. 7B

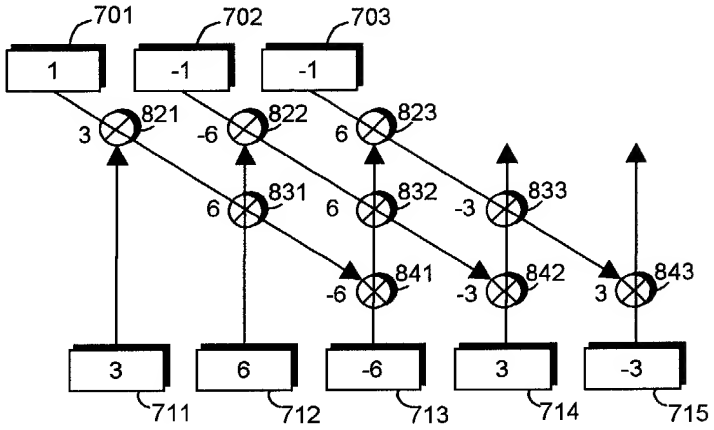
701
702
703
1
-1
-1
3
821
-6
822
6
823
6
831
6
832
-3
833
-6
841
-3
842
3
843
3
6
-6
3
-3
711
712
713
714
715

FIG. 8A

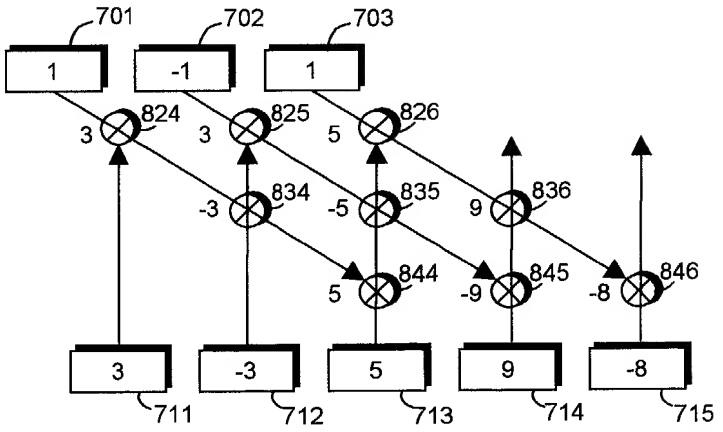
701
702
703
1
-1
1
3
824
3
825
5
826
-3
834
-5
835
9
836
5
844
-9
845
-8
846
3
-3
5
9
-8
711
712
713
714
715

FIG. 8B

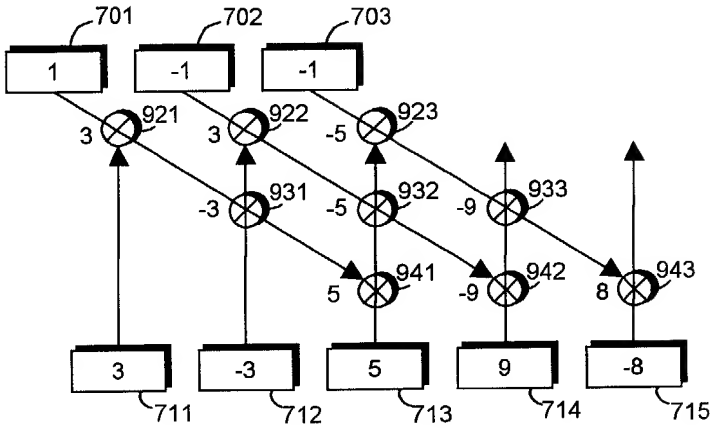
701
702
703
1
-1
-1
921
922
923
3
3
-5
931
932
933
-3
-5
-9
941
942
943
5
-9
8
3
-3
5
9
-8
711
712
713
714
715

FIG. 9A

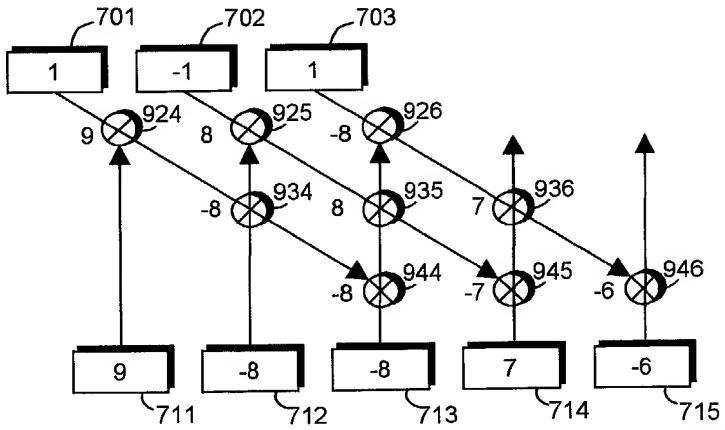
701
702
703
1
-1
1
924
925
926
9
8
-8
934
935
936
-8
8
7
944
945
946
-8
-7
-6
9
-8
-8
7
-6
711
712
713
714
715

FIG. 9B

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CODE SEQUENCE	1	-1	-1	1	-1	1								
RECEIVED SAMPLE	5	2	-1	3	6	-6	3	-3	5	9	-8	-8	7	6
CORRELATION OUTPUT	-5	15	-22	14	10	-18	10	-10	-17					

FIG. 10